

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

17 Sep 2026

### Effect of coenzyme Q10 in invitro fertilization results (IVF) in infertile women with poor ovarian response

#### Protocol summary

##### Summary

This study investigates the impact of using coenzyme Q10 in fertility outcome in "in vitro" fertilization ways. Patients include 30 women with poor ovarian response will be undergoing FLARE protocol who will be referred to Fatemeh hospital. The patients are divided into two equal groups randomly treated with Q10 and control group. Treatment group members receive 200 mg Q10 daily ,eight weeks prior to ovulation induction and during performing IVF,in total ,for 3 months and control group receive placebo. During the first two month serum level of LH, FSH and estradiol are measured monthly. At the same time 1 month before undergoing IVF patients will receive OCP daily from day 3 of period. And second day of next month period, LH, FSH and estradiol are measured . and two 0/1 mg Decapeptid Ampule are injected one per day and from the third day on ,Gonadotropine injection with 300-450 IU dose is started and every 3-4 days, trans-vaginal sonography is conducted until the size of the follicle equals 18mm .Then 10000 units of HCG ampule is injection to the patient and 36 hours later ,the processed sperm micro injection is conducted and 48-72 hours later , the transfer is accomplished and two weeks later, BHCG test is conducted in the laboratory of Fatemeh hospital .

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2012092810958N1**

Registration date: **2014-07-10, 1393/04/19**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2014-07-10, 1393/04/19

#### Registrant information

##### Name

Zhila Golmohammadi

##### Name of organization / entity

Hamedan University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 81 1827 7082

##### Email address

zh.golmohammadi@umsha.ac.ir

#### Recruitment status

##### Recruitment complete

#### Funding source

Hamedan University of Medical Sciences

#### Expected recruitment start date

2012-05-21, 1391/03/01

#### Expected recruitment end date

2013-05-22, 1392/03/01

#### Actual recruitment start date

empty

#### Actual recruitment end date

empty

#### Trial completion date

empty

#### Scientific title

Effect of coenzyme Q10 in invitro fertilization results (IVF) in infertile women with poor ovarian response

#### Public title

Effects of coenzyme Q10 in female infertility

#### Purpose

Treatment

#### Inclusion/Exclusion criteria

Inclusion caricteria:primary infertility; age over 35 years; FSH>10 on the third day of the cycle; ovarian volume<3ml; oocyte<3-5 Exclusion caricteria:Lack of consent to the continuation of the treatment;Not referring the patient to continue treatment at designated

times; any current use of systemic steroid medication within 3 months of study enrollment; any contraindication to being pregnant and carrying a pregnancy to term; absence of one ovary; clinically relevant chronic systemic disease(diabet -HTN) and malignancies; use of insuline ,beta blocker,TCA,Estatine,comadine,warfarine,phenazopridine

#### Age

From **35 years** old to **50 years** old

#### Gender

Female

#### Phase

N/A

#### Groups that have been masked

*No information*

#### Sample size

Target sample size: **30**

#### Randomization (investigator's opinion)

N/A

#### Randomization description

#### Blinding (investigator's opinion)

Not blinded

#### Blinding description

#### Placebo

Not used

#### Assignment

Parallel

#### Other design features

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Hamedan University of Medical Sciences

##### Street address

Hamadan University of Medical Science, Mhdiye Blvd

##### City

Hamedan

##### Postal code

3519638686

#### Approval date

2012-07-03, 1391/04/13

#### Ethics committee reference number

/16/35/9/1216 /پ/د

## Health conditions studied

### 1

#### Description of health condition studied

Infertility

#### ICD-10 code

N97

#### ICD-10 code description

Inability to achieve a pregnancy

## Primary outcomes

### 1

#### Description

Pregnancy Rate

#### Timepoint

Every Cycle

#### Method of measurement

Pregnancy Test(BHCG)

## Secondary outcomes

### 1

#### Description

Number of days induction

#### Timepoint

Daily

#### Method of measurement

Counting the days

### 2

#### Description

Number of gonadotropin ampules induction

#### Timepoint

Daily

#### Method of measurement

Counting ampoules

## Intervention groups

### 1

#### Description

Intervention group:Patients receive 200 mg of coenzyme Q10 from 8 weeks before stimulates the egg agency to three months after .

#### Category

Treatment - Drugs

### 2

#### Description

Control group:Patients recieve placebo 8 weeks before stimulates the egg agency to three months after.

#### Category

Treatment - Drugs

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Fatemieh Hospital

##### Full name of responsible person

Marzieh Farimani

##### Street address

Fatemieh Hospital, Pasdaran avenue

##### City

## Sponsors / Funding sources

1

### Sponsor

**Name of organization / entity**

Hamadan University of Medical Sciences

**Full name of responsible person**

Heydar Tavillani

**Street address**

Mahdiye Blvd, Hamadan University of Medical Sciences

**City**

Hamadan

**Grant name**

**Grant code / Reference number**

**Is the source of funding the same sponsor organization/entity?**

Yes

**Title of funding source**

Hamadan University of Medical Sciences

**Proportion provided by this source**

100

**Public or private sector**

*empty*

**Domestic or foreign origin**

*empty*

**Category of foreign source of funding**

*empty*

**Country of origin**

**Type of organization providing the funding**

*empty*

## Person responsible for general inquiries

### Contact

**Name of organization / entity**

Hamadan University of Medical Sciences

**Full name of responsible person**

Zhila Golmohammadi

**Position**

Resident of Surgical Obstetrics and Gynecology

**Other areas of specialty/work**

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## Person responsible for scientific inquiries

### Contact

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Marzieh Farimani

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Obstetric and Gynecology Surgeon

**Other areas of specialty/work**

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## Person responsible for updating data

### Contact

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**Position**

Resident of Surgical Obstetrics and Gynecology

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## Sharing plan

### Deidentified Individual Participant Data Set (IPD)

*empty*

### Study Protocol

*empty*

### Statistical Analysis Plan

*empty*

### Informed Consent Form

*empty*

### Clinical Study Report

*empty*  
**Analytic Code**  
*empty*

**Data Dictionary**  
*empty*